

CLAIMS

1        1. A method of controlling access by a parent node to child nodes in a DOM  
2        tree, comprising the steps of:  
3                assigning a parent-node context-value to said parent node;  
4                assigning a child-node context-value to each of said child nodes;  
5                correlating one or more of said child nodes to said parent node; and  
6                permitting access by said parent node only to said correlated child nodes.

1        2. A method as set forth in claim 1, wherein said correlating step comprises at  
2        least the step of:  
3                assigning the child-node context-value of said correlated child nodes to be the  
4        same as the parent-node context value.

1        3. A method as set forth in claim 1, wherein said correlating step comprises at  
2        least the step of:  
3                assigning the child-node context-value of said correlated child nodes to inherit  
4        the parent-node context value.

1        4. A method as set forth in claim 2, wherein each of said nodes is assigned a  
2        name, and wherein each of the names assigned to said child nodes is encrypted at the

3 time it is assigned, and wherein said step of permitting access comprises at least the  
4 step of:

5 decrypting the names of each correlated child node.

1 5. A method as set forth in claim 3, wherein each of said nodes is assigned a  
2 name, and wherein each of the names assigned to said child nodes is encrypted at the  
3 time it is assigned, and wherein said step of permitting access comprises at least the  
4 step of:

5 decrypting the names of each correlated child node.

1 6. A method as set forth in claim 1, wherein each of said child nodes is assigned  
2 a child-node context-value which is unique with respect to the child-node context-value  
3 of all other child nodes, and wherein only one of said child nodes is correlated to said  
4 parent node, said correlating step comprising at least the step of:

5 assigning the child-node context-value of said correlated child-node to be the  
6 same as the parent-node context-value.

1 7. A system for controlling access by a parent node to child nodes in a DOM  
2 tree, comprising:

3 means for assigning a parent-node context-value to said parent node;

4 means for assigning a child-node context-value to each of said child nodes;

5           means for correlating one or more of said child nodes to said parent node; and  
6           means for permitting access by said parent node only to said correlated child  
7           nodes.

1           8. A system as set forth in claim 7, wherein said means for correlating  
2           comprises at least:  
3           means assigning the child-node context-value of said correlated child nodes to be  
4           the same as the parent-node context value.

1           9. A system as set forth in claim 7, wherein said means for correlating  
2           comprises at least:  
3           means for assigning the child-node context-value of said correlated child nodes  
4           to inherit the parent-node context value

1           10. A system as set forth in claim 8, wherein each of said nodes is assigned a  
2           name, and wherein each of the names assigned to said child nodes is encrypted at the  
3           time it is assigned, and wherein said means for permitting access comprises at least:  
4           means for decrypting the names of each correlated child node.

1           11. A system as set forth in claim 9, wherein each of said nodes is assigned a  
2       name, and wherein each of the names assigned to said child nodes is encrypted at the  
3       time it is assigned, and wherein said means for permitting access comprises at least:  
4           means for decrypting the names of each correlated child node.

1           12. A system as set forth in claim 7, wherein each of said child nodes is  
2       assigned a child-node context-value which is unique with respect to the child-node  
3       context-value of all other child nodes, and wherein only one of said child nodes is  
4       correlated to said parent node, said means for correlating comprising at least:  
5           means for assigning the child-node context-value of said correlated child-node to  
6       be the same as the parent-node context-value.

1           13. A computer program product for controlling access by a parent node to  
2       child nodes in a DOM tree, comprising:  
3           a computer-readable program code means embodied in a computer-readable  
4       storage medium, said computer readable code means comprising:  
5           computer-readable program code means for assigning a parent-node context-  
6       value to said parent node;  
7           computer-readable program code means for assigning a child-node context-value  
8       to each of said child nodes;

9           computer-readable program code means for correlating one or more of said child  
10          nodes to said parent node; and

11           computer-readable program code means for permitting access by said parent  
12          node only to said correlated child nodes.

1           14. A computer program product as set forth in claim 13, wherein said  
2          computer-readable program means for correlating step comprises at least:

3           computer-readable program code means for assigning the child-node context-  
4          value of said correlated child nodes to be the same as the parent-node context value.

1           15. A computer program product as set forth in claim 13, wherein said  
2          computer-readable program code means for correlating comprises at least:

3           computer-readable program code means for assigning the child-node context-  
4          value of said correlated child nodes to inherit the parent-node context value.

1           16. A computer program product as set forth in claim 14, wherein each of said  
2          nodes is assigned a name, and wherein each of the names assigned to said child nodes is  
3          encrypted at the time it is assigned, and wherein said computer-readable program  
4          means for permitting access comprises at least:

5           computer-readable program means for decrypting the names of each correlated  
6          child node.

1           17. A computer program product as set forth in claim 15, wherein each of said  
2       nodes is assigned a name, and wherein each of the names assigned to said child nodes is  
3       encrypted at the time it is assigned, and wherein said computer-readable program  
4       means for permitting access comprises at least:

5           computer-readable program means for decrypting the names of each correlated  
6       child node.

1           18. A computer program product as set forth in claim 13, wherein each of said  
2       child nodes is assigned a child-node context-value which is unique with respect to the  
3       child-node context-value of all other child nodes, and wherein only one of said child  
4       nodes is correlated to said parent node, said computer-readable program means for  
5       correlating comprising at least:

6           computer-programmable program means for assigning the child-node context-  
7       value of said correlated child-node to be the same as the parent-node context-value.